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Hawkinsville, Ala., are *Phoberia atomaris*, while those from Mr. J. S. Newman, Atlanta, Ala., are the *Platyhyphen*a above-mentioned.

SCALE INSECT ON RASPBERRY.—Mr. R. B. Fulton, of Oxford, Miss., sends us a raspberry cane covered with a scale insect, with the following remarks: "The insect has been ruinous to the black-cap raspberry in this vicinity for the last three or four years. Old raspberry plants have been dug up and thrown away to get rid of the pest. It first appeared (or was noticed) in one garden, and has spread to all in this vicinity. If it is a bark-louse, and if, as is stated by Harris, the female has no wings, how could the insect have spread so rapidly to six or eight gardens? I have not noticed it on the red or yellow raspberry. It multiplies so fast that it seems useless to try to kill it by any applications to the plant."

The whitish, flat, either broad-oval or round scales on the cane are, judging from the scales and eggs, those of the widespread Harris's bark-louse (*Diaspis harrisii* Walsh), which is known to infest various trees and shrubs. The mode of spreading of this and other scale insects, the females of which never acquire wings, is more rapid than is generally supposed. The young lice which hatch in the spring are very active during a few days, and can overrun a large garden in a very short time. They may easily be carried from one garden to another by the wind or by the aid of birds or flying insects. In most cases, however, the female scales are transported from one place to another on cuttings and nursery stock. The best way to counteract the ravages of this insect is to dig up and burn, in winter time, *all* infested plants. New plants should always be carefully examined and thoroughly cleansed before planting.

SPECIFIC VALUE OF APATURA ALICIA EDW.—Mr. W. H. Edwards gives, in the October number of *Psyche*, recently issued, a full account of the adolescent stages of this species and concludes that its specific value is confirmed thereby. Bearing in mind the variation which we know to occur in the larva of *Apatura celtis*, we are constrained to attach less importance to the slight differences which Mr. Edwards points out between it and the larva of *alicia* than he himself gives to them. The facts brought out, however, strengthen the claim of *alicia* to stand as a name characterizing a special form. Whether it be considered a good species or not is hardly worth discussing on account of the great latitude of opinion as to what constitutes a species.

ANTHROPOLOGY.¹

ANTHROPOLOGY IN GERMANY.—Just as the Journal of the Anthropological Institute represents our science in England, and the Bulletins, Revue and Materiaux, exhibit the labors of anthropologists in France, so in Germany the cream of all contributions

¹ Edited by Prof. OTIS T. MASON, Columbian College, Washington, D. C.

finds its way into the Archiv für Anthropologie. The first and second quarterly parts of the thirteenth volume close the year 1880. The volume consists of original papers, shorter communications, reviews, and reports of meetings.

The original contributions are as follows:

1. The occurrence of a tail on human beings, pp. 42, 1 table, by Dr. Max Bartels, of Berlin.
2. Monuments and localities with which the myth of Nerthus is associated. A communication to the Anthropological Society of Kiel, March 16, 1880. [This paper is founded upon a passage in the Germania of Tacitus, chapter 40.] pp. 10, by Heinrich Handelmann.
3. Circumcision, by Richard Andree.
4. Contribution to a Craniology of the European races. 1. With a table of curves, by Professor J. Kollman.

Quite extended reviews appear of Mook's "Prehistoric Egypt," Hart's "Stone implements in the Museum of Rio Janeiro," Molon's "Ligurians," Habel's "Sculptures of Santa Lucia," Rau's "Palenque Tablet," and "Archæological collections in the National Museum," Bell's "Jungle Life," Marty's "Color Sense," Emmert's "Eye and Skull," and Valentini's "Calendar Stone."

A supplement of 160 pages contains a stenographic report of the eleventh general meeting of the German Society of Anthropology, Ethnology and Prehistory in Berlin, August, 1880. Nos. 9, 10 and 11 of *Correspondenz-Blatt* give an account of the organization, a list of the members, a résumé of the proceedings, and a catalogue of works presented at the meeting.

ANTHROPOLOGY IN FRANCE.—The *Revue d'Anthropologie* for January of the current year, furnishes the following contributions to our knowledge:

Quelques subdivisions des groupes basés sur l'indice cephaliques, by Paul Broca.
De l'embryogenie dans ses rapports avec l'anthropologie (Leçon d'ouverture à l'Ecole d'Anthropologie), by Mathias Duval.

Classification et chronologie des haches en Bronze, by M. Gabriel de Mortillet.

Les Negres chez eux (Part 2), by M. Mondiere.

Sur quelques crânes de criminels et de suicides, by MM. Ten Kate and Pavlovsky.

Revue Critique—"Les Samoyedes," of Zograf and Bogdanof.

Rev. Préhistoriques—Soc. d'Anthrop. de Paris; The antiquity of Man in Dauphiny, etc.; Anthropological Society of Berlin, and Congress of Prehistoric Archæology at Lisbon.

Revue des Livres—Crania ethnica; and Discovery of America by the Normans in the 10th century.

Revue des Journaux—French, Italian, American, English, German.

Miscellanea—Société d'Anthropologie; Laboratory of Anthropology of the School of Higher Studies; Conferences on Anthropology by the Faculty of Sciences at Lyons; On anthropological instruction in Italy; Congress in Algiers in April, 1881.

Bibliography—Six closely printed pages are devoted to bibliography.

THE EGYPTIAN STONE AGE.—The New York *Nation* for January 13, alludes to the researches of Dr. Mook as finally setting at rest the greatly disputed question as to the existence of a Prehamitic population in the valley of the Nile. In the number for

January 27, Mr. Henry W. Haynes, of Boston, calls the attention of the editor to the fact that as early as 1868 he himself had discovered palæolithic axes of the St. Acheul type, together with a most extensive series of all the usual implements that are found in other countries in which the existence of the "stone age" is regarded as established. Mr. Haynes also states that it was he who first directed Dr. Mook's attention to the palæolithic implements, and complains that Dr. Mook has almost totally ignored him in his work. The death of Dr. Mook, recently announced, will deprive our countryman of the explanation which is justly his due.

PREHISTORIC ILLINOIS.—At the second annual meeting of the State Natural History Society of Illinois, held in the State House at Springfield, Feb. 8--10, the following papers were read: "The ancient agricultural implements of stone found in the Illinois river bottoms and in the mounds in the Mississippi valley," by the Hon. Wm. Mc. Adams, of Otterville; "The Palenque Tablet," by Professor Cyrus Thomas; and "The Ancient Illinois," by the Hon. J. G. Henderson, of Winchester. Only the most meager report of these interesting papers has reached us, hence the brevity of this notice.

ANCIENT WORKS IN NEW YORK.—There are within ten miles of Watertown, N. Y., many ancient fortified village sites, not to speak of those obliterated by the plow. We cannot use the term mound, as applicable to this locality, for there are no artificially constructed mounds found here. One of the most marked features is, that all these sites were fortified, or defended with ditches. They are nearly all located upon the sandy moraines of extinct Adirondac glaciers, or sand strewn hills. A few fishing stations along the shores of Lake Ontario and Black River bay are the exceptions, and even these are upon sandy slopes. There seems to be no uniformity in the shape or construction of the lines of defence; one at Black River bay had the ditches in the form of circles, one within the other, and a lunette towards the water, with a protected roadway to the shore. One in Rutland, on the farm of Mr. Gragg, has the trench cut across the base of a peninsula, between two forks of Sandy creek, a steep hill serving as embankment for the rest of the enclosure, and usually the lines run along the edges of an escarpment. I am informed by several of our elderly inhabitants, that these lines of entrenchments near our cemetery, were a mile and a half long, and some of the trenches five feet deep. Pottery of the usual forms, and nearly always broken into small pieces, is a constant accompaniment of these fortified sites, and it is generally blackened on the inside with charred food, showing that the owners cooked with heated stones thrown into the vessels. The jar or pot, the most perfect specimens I have met with, was dug up in the town of Rutland many years since,

and is owned by Mr. J. A. Lawyer of this city. Arrow-heads, stone-axes, scrapers, knives, bone awls, charred corn, etc., found west and south, are dug up from the graves of these people, or strew the sites of their homes.—*David S. Marvin.*

THE AMERICAN ANTIQUARIAN.—The number for January of this useful Journal makes the following contributions to anthropology:—The military architecture of the emblematic Mound-builders, by the Rev. S. D. Peet; Oregon and her Prehistoric relics; Lookout mounds in Ohio; Earthworks on the Missouri river; The ancient pottery makers; Wisconsin copper finds and lake dwellings; The rapid formation of rock strata in Oregon; Wild rice; Nest of flint relics; The Mound-builders in Minnesota; Indian relics in a mound; Ancient man in Missouri; Relics of the Mound-builders near Joliet Ill.; Gold ornaments in Tehuantepec; Aleutian mummies.

GERMAN ANTHROPOLOGY.—Our readers will remember that there was an exhibition of the prehistoric and anthropological collections of Germany in Berlin, from 5–21 August, 1880, under the protection of the Crown Prince, and in connection with the eleventh annual meeting of the German Anthropological Society. Under the direction of Dr. A. Voss, of Berlin, an illustrated catalogue and supplement have been published, 619 and 48 pages. In these volumes are brought together not only descriptions of the objects exhibited but catalogues of books and lists of localities which makes them really a complete hand-book of German anthropology.

ANTHROPOLOGY IN GREAT BRITAIN.—The Journal of the Anthropological Institute is coming more and more to reflect the labors of British anthropologists. In the number for November, 1880, No. II, Vol. x, the original matter is supplemented by ten pages of miscellanea. The original papers are as follows:

Notes on Fijian Burial Customs. By the Rev. Lorimer Fison.

Flint Implements from the Valley of the Bann. By W. J. Knowles, Esq.

On the cranial characters of the natives of the Fiji islands. By W. H. Flower, LL.D., F.R.S.

The Ethnology of Germany. Part v. The Jutes and Fomorian. By H. H. Howorth.

Observations upon the methods and processes of Anthropometry. By Dr. Paul Topinard.

The Japanese People: their origin and the race as it now exists. By C. Pfoundes.

The paper of greatest value to the readers of the NATURALIST is that of Dr. Topinard. Anthropometry is the measurement of the entire human body, to determine its proportions: 1, at different ages, to learn the law of the relative growth of parts; 2, in races, so as to distinguish them; 3, in all environments, in order to ascertain their influence on variation. As the few skeletons in our museums are insufficient to obtain a just average, all our efforts should tend to perfect the methods of operating on the

living, and to simplify them so as to render them available by travelers, officers of the army and navy, recruiting agents, teachers, etc. To obtain good measures one should demand only a few, such as height, breadths, some circumferences, and perhaps the facial angle.

The center of the patella, adopted in the statistics of the Civil war is preferred upon the living to all others, as one datum point. From the summit of the olecranon to the upper border of the head of the radius is another. And, indeed, Dr. Topinard boldly affirms that when it is impossible to reconcile anatomical exactness with external configuration, the former must give way. Those engaged in anthropometric investigations cannot afford to omit reading this paper.

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GEOLOGY AND PALÆONTOLOGY.

THE TACONIC SYSTEM IN GEOLOGY.¹—The existence of a series of stratified rocks in the Appalachian valley, intermediate in age between the older crystalline or primitive schists and the Palæozoic rocks of the New York system, was taught by Eaton and main-

¹ Abstract of a paper read before the National Academy of Sciences at Washington, April 18, 1880.